

Product datasheet for **TP304152M**

GBE1 (NM_000158) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glucan (1,4-alpha-), branching enzyme 1 (GBE1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204152 protein sequence Red =Cloning site Green =Tags(s)

MAAPMTPAARPEDYEAALNAALADVPELARLLEIDPYLKPYAVDFQRRYKQFSQILKNIGENEGGIDKFS
RGYESFGVHRCADGGLYCKEWAPGAEGVFLTGFNGWNPFSYPYKLDYGKWELYIPPKQNKSVLVPHGS
KLVVITSKSGEILYRISPAKYVREGDNVNYDWHWDPEHSYEFKHSRPPKPRSLRIYESHVGISSHE
GKVASYKHFTCNVLPRIKGLGYNCIQLMAIMEHAYASFGYQITSFFAASSRYGSPEELQELVDTAHSMG
IIVLLDVVHSHASKNSADGLNMFDTGTDSCYFHSGPRGTHDLWDSRLFAYSSWEVLRFLLSNIRWWLEEYR
FDGFRFDGVTSMLYHHHGVGQFGSDYSEYFGLQVDEDALTYLMLANHLVHTLCPDSITIAEDVSGMPAL
CSPISQGGGGFDYRLAMAIPDKWIQLLKEFKDEDWNMGDIVYTLNRRYLEKCIAYAESHQALVGDKSL
AFWLMDAEMYTNMSVLTPTFPVIDRGIQLHKMIRLITHGLGGEGYLNFMGNEFGHPWLDFFPRKGNNESY
HYARRQFHLLTDDDLLRYKFLNNFDRDMNRLEERYGWLAAPQAYVSEKHEGNKIIAFERAGLLFIFNFHPS
KSYTDYRVGTALPGFKIVLDSAAEYGGHQRLDHSTDFSEAFEHNGRPYSLLYIPSRVALILQNVDL
PN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	80.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



[View online >](#)

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000149](#)

Locus ID: 2632

UniProt ID: [Q04446](#), [Q59ET0](#)

RefSeq Size: 3118

Cytogenetics: 3p12.2

RefSeq ORF: 2106

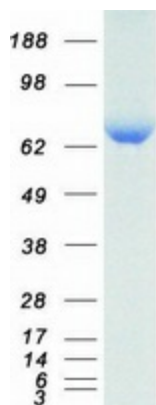
Synonyms: APBD; GBE; GSD4

Summary: The protein encoded by this gene is a glycogen branching enzyme that catalyzes the transfer of alpha-1,4-linked glucosyl units from the outer end of a glycogen chain to an alpha-1,6 position on the same or a neighboring glycogen chain. Branching of the chains is essential to increase the solubility of the glycogen molecule and, consequently, in reducing the osmotic pressure within cells. Highest level of this enzyme are found in liver and muscle. Mutations in this gene are associated with glycogen storage disease IV (also known as Andersen's disease). [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Starch and sucrose metabolism

Product images:



Coomassie blue staining of purified GBE1 protein (Cat# [TP304152]). The protein was produced from HEK293T cells transfected with GBE1 cDNA clone (Cat# [RC204152]) using MegaTran 2.0 (Cat# [TT210002]).